aiwa

COMPACT disc DIGITAL AUDID

OPERATING INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MODE D'EMPLOI

CDC-X227 YU

STEREO CAR CD RECEIVER
RADIO-TOCADISCOS DE CD ESTEREOFONICO PARA AUTOMOVIL

ENGLISH

ESPAÑOL

FRANÇAIS

OWNER'S RECORD

For your convenience, record the model number and serial number (you will find them on the bottom side of your set) in the space provided below. Please refer to them when you contact your AIWA dealer in case of difficulty.

Model No.	CDC-X227
Serial No.	

8C-KCG-921-01
011120ATM-OX

PRECAUTIONS

- Use only in a 12-volt DC negative-ground electrical system.
- Disconnect the vehicle's negative battery terminal while mounting and connecting the unit.
- When replacing the fuse, be sure to use one with an identical amperage rating. Using a fuse with a higher amperage rating may cause serious damage to the unit.
- Do NOT attempt to disassemble the unit. Laser beams from the optical pickup are dangerous to the eyes.
- Make sure that pins or other foreign objects do not get inside the unit; they may cause malfunctions, or create safety hazards such as electrical shock or laser beam exposure.
- When your vehicle has been parked in direct sunlight resulting in a considerable rise in the temperature inside, allow the unit to cool off before operating it.
- Keep the volume at a level at which you can hear outside warning sounds (horns, sirens, etc.).

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Modifications or adjustments to this product, which are not expressly approved by the manufacturer, may void the user's right or authority to operate this product.

In addition to ordinary CDs, CD-Rs or CD-RWs can be read by this unit. However, NEVER use a CD-R or CD-RW that contains no data or data in the wrong format, such as MP3 or other computer files.

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Note

Some buttons are assigned two or more functions. For detailed descriptions, refer to the related pages.

CD Notes

- Playing a defective or dusty CD can cause dropouts in sound.
- Hold CDs as illustrated.
- Do NOT touch the unlabeled side.
- Do NOT attach any seal, label or data protection sheet to either side of CD.
- Do NOT expose a CD to direct sunlight or excessive heat.
- Wipe a dirty CD from the center outward with a cleaning cloth.
  Never use solvents such as benzine or alcohol.
- This unit cannot play 3-inch (8 cm) CDs.
- NEVER insert a 3-inch CD contained in the adapter or any irregularly shaped CD.
  The unit may not be able to eject it, resulting in a malfunction.

DEMO (Demonstration) mode

The unit has an extra display (DEMO) mode which demonstrates the illumination modes of the unit. The unit switches to DEMO mode automatically if you turn the unit on and leave it as it is for 5 seconds after all the connections have been completed.

To cancel DEMO mode

1 During DEMO mode, press and hold **SRC** until "ILL" appears in the display.
2 Press ▲ or ▼ to select "DE".
3 Turn **AUDIO CONTROL** to select "DE 0."

To resume DEMO mode, select "DE 1" in step 3.

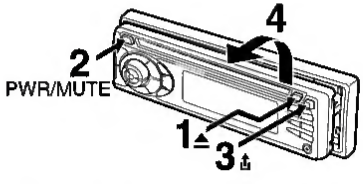
THEFT PROTECTION

Take the front panel with you when leaving the car, and keep it in the supplied carrying case.

Detaching the front panel

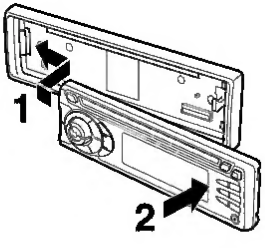
Before detaching the front panel, remove the CD to prevent possible damage to the unit.

1 Press ⏏ to remove the CD.
2 Press and hold **PWR/MUTE** until the unit turns off.
3 Press ⏏. (Hold the panel with one hand to prevent accidentally dropping it.)
4 Remove the panel.



Attaching the front panel

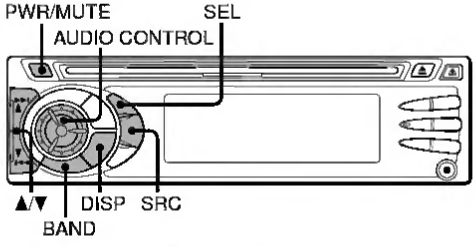
1 Engage the left side of the front panel to the left catch on the unit.
2 Push the panel forward until it locks. Be sure not to press any buttons while you are attaching the panel.



Note

Do not touch the connector on the reverse side of the front panel. This could cause a poor or faulty connection.

BASIC OPERATION, AUDIO AND CLOCK ADJUSTMENT



Turning the unit on/off

- Press **PWR/MUTE** to turn on the unit. The unit also turns on when you insert a CD.
- Press and hold **PWR/MUTE** until the unit turns off.

Note

Most operations described in this manual require the unit to be turned on before starting the operation, unless explicitly stated otherwise.

Changing the source mode

1 Press **SRC**.
Pressing **SRC** cycles through source modes in the following order:
FM1 (FM2/FM3/AM1/AM2) → CD* → AUX

* "CD" does not appear in the display when there is no CD in the unit.

Adjusting the volume

1 Turn **AUDIO CONTROL**.
VOL (volume) indicator flashes.

Muting the sound

1 Press **PWR/MUTE** briefly.
MUTE indicator flashes.

To restore volume, briefly press **PWR/MUTE** again.

ENGLISH

Adjusting sound

You can select the following modes for adjusting sound depending on the music you listen to: BASS (low frequencies), TRE (high frequencies), BAL (left/right), FAD (front/ rear) and H-BASS (high bass).

1 Press **SEL** repeatedly to select the mode to be adjusted.
Pressing **SEL** cycles through the modes. The selected mode's indicator flashes.
2 Turn **AUDIO CONTROL** to increase/decrease the level or to select on/off for the selected mode.

Note

Adjust the level or select on/off within 5 seconds, or the selected mode will return to previous state.

Aligning the source levels

(Source Level Adjuster)

Volume may vary each time you change the source mode. In this case, you can align each source mode's volume to almost the same level.

1 Press **SRC** or **BAND** repeatedly to select the desired mode.
2 Press **DISP** while pressing **SEL**.
"LA 0" appears in the display.
3 Turn **AUDIO CONTROL** to adjust the level.

Note

Adjust the level within 5 seconds, or the selected mode will be canceled.

Restoring the factory settings

1 Turn off the unit.
2 Press and hold **DISP** until "LA --" appears in the display.

Note

You can restore the factory settings only for VOL, BASS, TRE, BAL, FAD, and H-BASS, and aligned source volume levels.

Muting button beep sounds

1 Turn off the unit.
2 Press and hold **SEL** until "bEEP" appears in the display.
3 Turn **AUDIO CONTROL** to select on (level indicators appear) or off (level indicators disappear).
4 Press **SEL**.

Setting the clock

1 Press and hold **DISP** until the clock indicator flashes in the display.
2 Press ▲ (to set hour) or ▼ (to set minute), and then turn **AUDIO CONTROL**.
3 Press **DISP**.

Displaying the clock

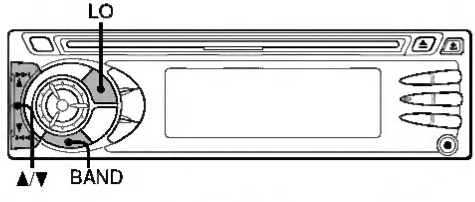
1 Press **DISP**.

To return to the former display, press **DISP** again.

RADIO OPERATION

Tuning in to a station

(Seek/Manual Tuning)



1 Press **BAND** repeatedly to select the desired band (FM1, FM2, FM3, AM1, or AM2).
2* Press ▲ (to move to higher frequencies) or ▼ (to move to lower frequencies) to tune in to a station.
"ST" appears in the display when an FM station is broadcasting in stereo, and receiving conditions are good.

***Seek Tuning and Manual Tuning**

- Press and hold ▲ or ▼ until seek Tuning starts.
The unit locates a station automatically (Seek Tuning).
- Press ▲ or ▼ repeatedly to search for a desired station while increasing or decreasing the frequency step by step (Manual Tuning).

To stop Seek Tuning, press ▲ or ▼ again.

Monaural mode

When signals become weak, or reception becomes poor, the unit automatically switches to Monaural mode to reduce noise.

Local mode

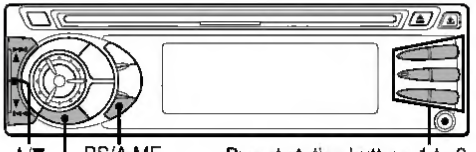
Local mode allows you to tune in only to strong stations during Seek Tuning.

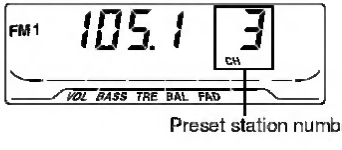
1 Press **LO** before you start seek tuning.
"LO" appears in the display.

To return to Distant mode, press **LO** again.
"LO" disappears and the unit tunes in to all receivable stations.

Using preset stations

You must preset stations before you can tune in a station using preset station number buttons.





Presetting stations automatically

(Auto Memory)

1 Press **BAND** repeatedly to select the desired band (FM1, FM2, FM3, AM1, or AM2).
2 Press and hold **PS/A.ME** until automatic presetting starts.
The unit automatically stores up to 6 stations for each band.
After completion of automatic presetting, the unit tunes in to the station stored on preset station button 1.

To cancel automatic presetting, press **PS/A.ME** again.

Checking the preset stations (Preset Scan)

1 Press **PS/A.ME** briefly.
Each preset station will be tuned in for 5 seconds in order.

To cancel Preset Scan, press **PS/A.ME** again or any preset station button.

Presetting stations manually

(Manual Memory)

1 Press **BAND** repeatedly to select the desired band (FM1, FM2, FM3, AM1, or AM2).
2 Press ▲ or ▼ to tune in to a desired station (see "Tuning in to a station" as well for another tuning method).
3 Press and hold the desired preset station button until the unit beeps.

Note

A newly preset station replaces the station on the same band that was previously stored on that preset station button.

Tuning in to a preset station

1 Press **BAND** repeatedly to select the desired band (FM1, FM2, FM3, AM1 or AM2).
2 Press the preset station button on which the desired station is stored.

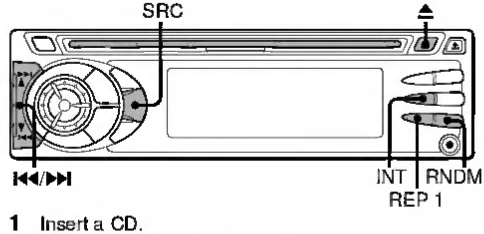
Active tuning reception control (ATRC)

The unit automatically suppresses FM noise caused by vehicle movement, and maintains sound quality.

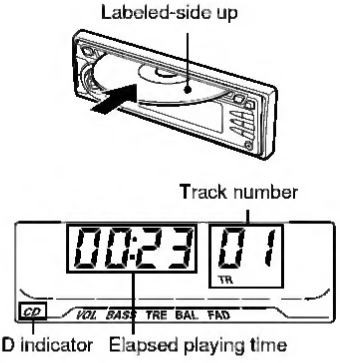
CD PLAYER OPERATION

Playing a CD

You can play CDs, CD-Rs and CD-RWs using the procedure described below.



1 Insert a CD.
"CD" appears in the display.
CD play starts.
If a CD is already inserted, press **SRC** repeatedly to select CD play mode.
In normal play, when the last track finishes, the unit returns to the first track and continues to play.



To	Press
Eject a CD	⏏
Skip to the next track	▶▶I
Go back to the beginning of the current track Each extra press skips backward one extra track	I◀◀
Locate a specific point in a track	Press and hold I◀◀ or ▶▶I until you find the point.

Note

- When you play a CD that is already inserted, CD play starts at the point where it stopped the previous time. A newly inserted CD starts from the first track.
- A CD-R or CD-RW may take some time to start playing back, but this is not a malfunction.
- If a CD-R or CD-RW with no data or incompatible data is inserted, "E03" will appear in the display. The unit cannot play such discs.

Intro Play

You can locate a desired track by monitoring the first 10 seconds of all the tracks on a CD.

1 Press **INT** during CD play.
"SCAN" appears in the display.
2 Press **INT** again when the desired track is played.
The unit returns to normal CD play.

One track Repeat Play

You can play a track repeatedly.

1 Press **REP1** during CD play.
"REPEAT1" appears in the display.

To cancel One track Repeat Play, press **REP1** again.

Random Play

You can play all the tracks in random order.

1 Press **RNDM** during CD play.
"RANDOM" appears in the display.

To cancel Random Play, press **RNDM** again.

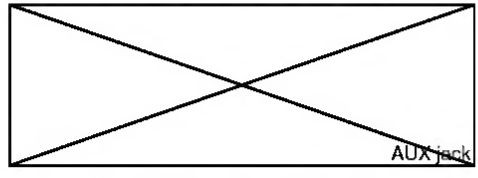
Note

During Random Play, pressing I◀◀ allows you to skip only to the beginning of the current track, not to the previous track.

AUXILIARY EQUIPMENT

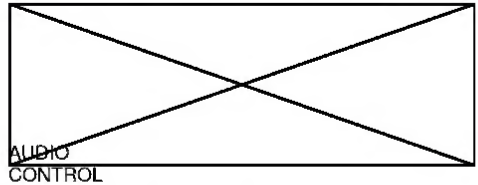
Listening to a cassette/MD/MP3 portable player or other equipment

You can listen to equipment connected to the unit. Refer to the operating instructions for the corresponding equipment for more detailed information.
Be sure to remove inserted CDs to prevent possible damage to the unit before connecting the equipment.



1 Connect a cassette/MD/MP3 portable player or other equipment to the unit's AUX jack (3.5 mm dia.).
2 Press **SRC** repeatedly until "AUX" appears in the display.
During AUX mode, the clock display appears.

OTHER FUNCTIONS



Changing the key illumination color

You can choose blue or red as the key illumination color.

1 Press and hold **SRC** until "ILL" appears in the display.
2 Turn **AUDIO CONTROL** to select 1 (for blue) or 2 (for red).

Setting the dimmer of the display

1 Press and hold **SEL** until "D" appears in the display.
2 Turn **AUDIO CONTROL** to select "D 0 (bright)" or "D 1 (dimmed)."

TROUBLESHOOTING

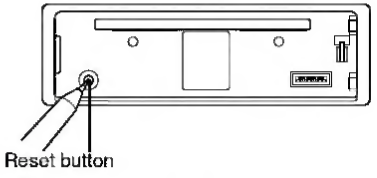
Error code

In the following cases the corresponding error code indication appears. Follow the suggestions below to solve such problems. If the error code indication does not disappear, consult an AIWA service center.

E03 Focus error. Check that the CD is loaded properly (right side up, etc.), and the CD contains valid data.

Reset button

If a CD does not operate properly, press the reset button with a pointed object such as a pencil, etc. Note that all your settings will be erased if this button is pressed.



MAINTENANCE

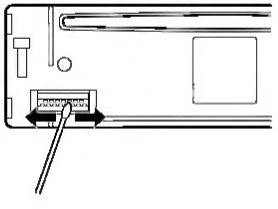
Cleaning the front panel

Wipe the surface with a soft, dry cloth. Do not use liquid cleaners or aerosol cleaners.

Cleaning the connector

The connector needs to be cleaned occasionally. Wipe the surface of the connector with a cotton swab slightly moistened with alcohol.

Back of the front panel



SPECIFICATIONS

RADIO SECTION

(FM)
Frequency Range: 87.5 MHz – 108 MHz
Usable Sensitivity: 12.7 dBf
50 dB Quieting Sensitivity: 17.2 dBf
IF Rejection: 100 dB
Frequency Response: 30 Hz – 15,000 Hz
S/N Ratio: 70 dB
Stereo Separation: 35 dB at 1 kHz
Alternate Channel Selectivity: 90 dB
Capture Ratio: 3 dB
(AM)
Frequency Range: 530 kHz – 1,710 kHz
Usable Sensitivity: 30 µV (30 dB)

CD SECTION

Frequency Response: 17 Hz – 20 kHz +0/–3 dB
Dynamic Range: More than 85 dB
Channel Separation: More than 60 dB
S/N Ratio: More than 90 dB
Wow/Flutter: Unmeasurable

AUDIO SECTION

Max. Power Output: 45 W × 4 channels

AUX input

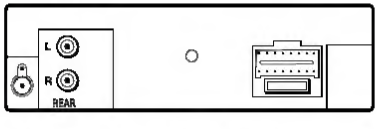
Input sensitivity (load impedance) AUX: 300 mV (10 kΩ)

GENERAL

Power-Supply Voltage: 14.4 V (11 to 16 V allowable), DC, negative ground
Load Impedance: 4 Ω
Tone Control:
Bass ± 10 dB at 100 Hz, Treble ± 10 dB at 10 kHz
Preamp Output Voltage (load impedance): 2.2 V (10 kΩ)
Installed size: 182 (W) × 53 (H) × 155 (D) mm (7 1/4 (W) × 2 1/8 (H) × 6 1/8 (D) inches)
Supplied Accessory: Carrying case (1)

- Specifications and external appearance are subject to change without notice due to product improvement.

REAR PANEL



For details, refer to the separate "INSTALLATION AND CONNECTIONS".

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